

APPROVED	O. FIG.
BY	CLASS
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Figure 1A

ATGTCGAAAA	TTGAACTAA	ACAACTATCT	TTTGCCTATG	ATAATCAAGA	AGTATTGCTT	60
TTTGATCAGG	CAAATATCAC	GATGGATACC	AATTGGAAT	TAGGATTGAT	TGCCCGCAAT	120
GGCCGTGGGA	AAACAACCTT	ATTAAGATTG	TTACAAAAAC	AGTTGGATTA	CCAAGGAGAG	180
ATTCTTCATC	AAGTCGATT	CGTCTATTTT	CCACAAACAG	TTGCAGAAGA	ACAACAGCTC	240
ACTTATTATG	TCTTACAAGA	GGTGACTTCT	TTTGAACAGT	GGGAATTAGA	ACGAGAATTA	300
ACGCTTTTAA	ACGTTGATCC	TGAAGTTTAA	TGGCGGCCCT	TTTCTTCTTT	ATCAGGCGGC	360
GAAAAGACGA	AAGTTTTATT	AGGTCTTCTT	TTTATTGAAG	AAAATGCCCT	TCCTTTAATT	420
GACGAGCCAA	CAAAATCATT	AGATCTAGCT	GGCAGACAAC	AAGTGGCTGA	ATATTTGAAG	480
AAAAAGAAAC	ACGGGTTTAT	TTTAGTCAGC	CACGATCGGG	CATTGTGTGA	TGAAGTGGTT	540
GATCATATTT	TGGCGATTGA	AAAAAGTCAA	TTGACGCTGT	ATCAAGGGAA	TTTTTCTATT	600
TATGAAGAGC	AAAAAAAATT	AAGAGATGCT	TTTGAACTAG	CAGAAAAATGA	AAAAATCAAA	660
AAAGAAGTCA	ATCGCTTGAA	AGAAACCGCT	CGTAAAAAAG	CGGAATGTC	GATGAACCGT	720
GAAGGTGATA	AGTACGGCAA	CGCTAAGGAA	AAAGGAGCG	GGCGATTTT	TGATACAGGA	780
GCCATTGGTG	CCCGGGCAGC	GCGCGTAATG	AAGCGCTCGA	AACACATTCA	ACAACGCGCC	840
GAAACACAAT	TAGCAGAAAA	AGAAAAACTA	TTAAAAAGATC	TTGAGTATAT	TGATCCTTTG	900
TCAATGGATT	ATCAGCCCAAC	GCATCACAAA	ACATTATTGA	CGGTGGAAGA	GCTTCGTCTA	960

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REMARKS		

Figure 1B

GGCTACGAGA AAAATTGGCT ATTTGCGCCA CTTTCTTTT CAATAAACGC GGGAGAAATT	1020
GTTGGAATAA CAGGGAATAA TGGCTCAGGA AAATCGAGCT TAATTCAGTA TTTATTGGAT	1080
AATTTTCTG GGGATTCAGA AGCGAAGCC ACTTTGGCTC ACCAATTAAC CATTTCTTAT	1140
GTGCGCCAAG ATTATGAAGA CAATCAAGGA ACTTTATCCG AATTGCAGA GAAAAATCAG	1200
TTAGATTACA CTCAATTTT AAATAACTTA CGAAAACTTG GGATGGAGCG CGCCGTTTTC	1260
ACTAATCGAA TTGAACAAAT GAGTATGGGG CAACGGAAAA AAGTCGAAGT AGCCAAATCA	1320
TTGTCTCAAT CAGCTGAAC TTTATATTGG GATGAACCCC TTAATTACTT GGATGTATT	1380
AATCATCAAC AATTAGAAGC GCTAATCTTA TCTGTGAAGC CTGCAATGCT AGTGATTGAG	1440
CATGATGCAC ATTTCATGAA GAAAATAACA GATAAAAAA TTGTCCTTGAA ATCATAA	1497

Figure 2A

MetSerLysIleGluLeuLysGlnLeuSerPheAlaTyrAspAsnGlnGluValLeuLeu 20
PheAspGlnAlaAsnIleThrMetAspThrAsnTrpLysLeuGlyLeuIleGlyArgAsn 40
GlyArgGlyLysThrThrLeuLeuArgLeuLeuGlnLysGlnLeuAspTyrGlnGlyGlu 60
IleLeuHisGlnValAspPheValTyrPheProGlnThrValAlaGluGlnGlnLeu 80
ThrTyrTyrValLeuGlnGluValThrSerPheGluGlnTrpGluLeuArgGluLeu 100
ThrLeuLeuAsnValAspProGluValLeuTrpArgProPheSerSerLeuSerGlyGly 120
GluLysThrLysValLeuLeuGlyLeuLeuPheIleGluGluAsnAlaPheProLeuIle 140
AspGluProThrAsnHisLeuAspLeuAlaGlyArgGlnGlnValAlaGluTyrLeuLys 160
LysLysLysHisGlyPheIleLeuValSerHisAspArgAlaPheValAspGluValVal 180
AspHisIleLeuAlaIleGluLysSerGlnLeuThrLeuTyrGlnGlyAsnPheSerIle 200
TyrGluGluGlnLysLysLeuArgAspAlaPheGluLeuAlaGluAsnGluLysIleLys 220
LysGluValAsnArgLeuLysGluThrAlaArgLysLysAlaGluTrpSerMetAsnArg 240
GluGlyAspLysTyrGlyAsnAlaLysGluLysGlySerGlyAlaIlePheAspThrGly 260
AlaIleGlyAlaArgAlaAlaArgValMetLysArgSerLysHisIleGlnGlnArgAla 280
GluThrGlnLeuAlaGluLysGluLysLeuLeuLysAspLeuGluTyrIleAspProLeu 300
SerMetAspTyrGlnProThrHisHisLysThrLeuLeuThrValGluLeuArgLeu 320

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Figure 2B

GlyTyrGluLysAsnTrpLeuPheAlaProLeuSerPheSerIleAsnAlaGlyGluIle 340
ValGlyIleThrGlyLysAsnGlySerGlyLysSerSerLeuIleGlnTyrLeuLeuAsp 360
AsnPheSerGlyAspSerGluGlyGluAlaThrLeuAlaHisGlnLeuThrIleSerTyr 380
ValArgGlnAspTyrGluAspAsnGlnGlyThrLeuSerGluPheAlaGluLysAsnGln 400
LeuAspTyrThrGlnPheLeuAsnAsnLeuArgLysLeuGlyMetGluArgAlaValPhe 420
ThrAsnArgIleGluGlnMetSerMetGlyGlnArgLysLysValGluValAlaLysSer 440
LeuSerGlnSerAlaGluLeuTyrIleTrpAspGluProLeuAsnTyrLeuAspValPhe 460
AsnHisGlnGlnLeuGluAlaLeuIleLeuSerValLysProAlaMetLeuValIleGlu 480
HisAspAlaHisPheMetLysLysIleThrAspLysLysIleValLeuLysSer 498

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Figure 3A

ATGAAAGAGA	TCGTAACATT	AACAAACGTT	AGCTATGAAG	TAAAGGATCA	AACTGTTTTT	60
AAACATGTAA	ACGCCAGTGT	TCAGCAAGGA	GATATCATTG	GGATTATCGG	CAAAAACGGC	120
GCTGGGAAAT	CTACGTTGCT	GCACCTCATT	CACAATGACT	TAGCCCCCTGC	ACAGGGTCAA	180
ATCCTTCGGA	AGGATATAAA	ACTGGCTTTG	GTTGAACAGG	AAACCGCGGC	GTATTCCCTT	240
GCGGATCAGA	CACCTGCCGA	AAAGAAGTTA	CTGGAGAAAT	GGCATGTGCC	TCTTCGTGAT	300
TTTTCATCAGT	TAAGCGGCGG	TGAAAAACTG	AAAGCGCGGC	TGGCGAAAGG	ACTATCAGAG	360
GATGCAGATC	TGCTGCTGTT	AGATGAACCG	ACAAACCACC	TTGATGAAAA	AAGCTTGCAA	420
TTTCTCATCC	AACAGCTGAA	ACATTATAAC	GGCACTGTGA	TTCTCGTTTC	TCACGATCGA	480
TATTTTTTAG	ACGAAAGCCGC	AACAAAAATA	TGGTCGCTTG	AGGATCAGAC	GCTGATTGAA	540
TTCAAAGGGA	ATTACTCCGG	GTATATGAAG	TTCCGGGAGA	AGAAAAGACT	CACCCAGCAG	600
CGTGAATATG	AAAAGCAGCA	AAAAATGGTT	GAACGGATTG	AAGCACAAAT	GAATGGGCTC	660
GCTTCTTGGT	CGGAAAAAGC	CCATGCTCAA	TCGACGAAA	AGGAAGGTT	TAAAGAATAT	720
CACCGGATAA	AAGCGAAGCG	TACGGATGCC	CAGATAAAAT	CCAAGCAGAA	GCGGCTTGAA	780
AAAGAGCTTG	AAAAAGCAAA	GGCGGAACCC	GTTACCCCAG	AATATACAGT	CCGCTTTTCA	840
ATCGATACAA	CCCACAAAAC	AGGAAAACGT	TTTTTAGAAG	TTCAGAAATGT	AACAAAAGCG	900
TTTGGAGAAA	GGACTCTCTT	TAAAAACGCA	AACTTTACAA	TTCAGCACGG	CGAAAAAGGTT	960

APPROVED	FIG.	
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Figure 3B

GCGATCATAG GCCCCAATGG CAGCGGAAAA ACGACATTAC TGAACATCAT TCTGGGACAG 1020
 GAAACAGCAG AAGGAAGTGT ATGGGTGTCG CCGTCCGCAA ACATCGGCTA TTTAACGCAG 1080
 GAGGTGTTTG ATTTGCCCTT AGAACAAACA CCGGAAGAGT TATTGAGAA TGAACAATTC 1140
 AAAGCAAGGG GGCACGTTCA AAATCTGATG AGGCACCTAG GTTTTACAGC CGCCCAATGG 1200
 ACTGAACCGA TCAAGCATAT GAGTATGGGT GAGCGTGTA AGATCAAAGCT GATGGCATAT 1260
 ATTCTGGAGG AAAAAAGACGT GCTGATTTTA GATGAGCCGA CAAACCATCT CGACCTGCCG 1320
 TCACGCGAAC AGCTGGAAGA AACACTGTCA CAATACAGCG GCACATTGCT GCGGGTTTCA 1380
 CATGACCGAT ACTTTCTCGA AAAACAACA AACAGTAAAC TCGTCATCTC AAACAACGGC 1440
 ATCGAAAAGC AGTTAAACGA CGTTCCTTCA GAAAGAAATG AGCGGGAGGA GCTTCGGTTA 1500
 AAGCTTGAGA CAGAAAGACA AGAAGTGCTG GGAAAGCTCA GTTTTATGAC GCCAAATGAT 1560
 AAAGGGTATA AGGAGCTTGA TCAGGCTTTC AATGAGCTTA CGAAACGAAT AAAAGAGCTG 1620
 GATCATCAAG ACAAAAAGA CTGA 1644

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Figure 4A

MetLysGluIleValThrLeuThrAsnValSerTyrGluValLysAspGlnThrValPhe 20
 LysHisValAsnAlaSerValGlnGlnGlyAspIleIleGlyIleIleGlyLysAsnGly 40
 AlaGlyLysSerThrLeuLeuHisLeuIleHisAsnAspLeuAlaProAlaGlnGlyGln 60
 IleLeuArgLysAspIleLysLeuAlaLeuValGluGlnGluThrAlaAlaTyrSerPhe 80
 AlaAspGlnThrProAlaGluLysLysLeuLeuGluLysTrpHisValProLeuArgAsp 100
 PheHisGlnLeuSerGlyGlyGlyLysLeuLysAlaArgLeuAlaLysGlyLeuSerGlu 120
 AspAlaAspLeuLeuLeuAspGluProThrAsnHisLeuAspGluLysSerLeuGln 140
 PheLeuIleGlnGlnLeuLysHisTyrAsnGlyThrValIleLeuValSerHisAspArg 160
 TyrPheLeuAspGluAlaAlaThrLysIleTrpSerLeuGluAspGlnThrLeuIleGlu 180
 PheLysGlyAsnTyrSerGlyTyrMetLysPheArgGluLysLysArgLeuThrGlnGln 200
 ArgGluTyrGluLysGlnGlnLysMetValGluArgIleGluAlaGlnMetAsnGlyLeu 220
 AlaSerTrpSerGluLysAlaHisAlaGlnSerThrLysLysGlyGlyPheLysGluTyr 240
 HisArgValLysAlaLysArgThrAspAlaGlnIleLysSerLysGlnLysArgLeuGlu 260
 LysGluLeuGluLysAlaLysAlaGluProValThrProGluTyrThrValArgPheSer 280
 IleAspThrThrHisLysThrGlyLysArgPheLeuGluValGlnAsnValThrLysAla 300
 PheGlyGluArgThrLeuPheLysAsnAlaAsnPheThrIleGlnHisGlyGluLysVal 320

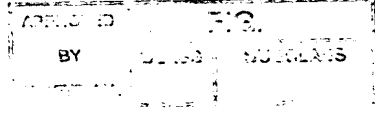


Figure 4B

AlaIleIleGlyProAsnGlySerGlyLysThrThrLeuLeuAsnIleIleLeuGlyGln 340
 GluThrAlaGluGlySerValTrpValSerProSerAlaAsnIleGlyTyrLeuThrGln 360
 GluValPheAspLeuProLeuGluGlnThrProGluGluLeuPheGluAsnGluThrPhe 380
 LysAlaArgGlyHisValGlnAsnLeuMetArgHisLeuGlyPheThrAlaAlaGlnTrp 400
 ThrGluProIleLysHisMetSerMetGlyGluArgValLysIleLysLeuMetAlaTyr 420
 IleLeuGluGluLysAspValLeuIleLeuAspGluProThrAsnHisLeuAspLeuPro 440
 SerArgGluGlnLeuGluGluThrLeuSerGlnTyrSerGlyThrLeuLeuAlaValSer 460
 HisAspArgTyrPheLeuGluLysThrThrAsnSerLysLeuValIleSerAsnAsnGly 480
 IleGluLysGlnLeuAsnAspValProSerGluArgAsnGluArgGluGluLeuArgLeu 500
 LysLeuGluThrGluArgGlnGluValLeuGlyLysLeuSerPheMetThrProAsnAsp 520
 LysGlyTyrLysGluLeuAspGlnAlaPheAsnGluLeuThrLysArgIleLysGluLeu 540
 AspHisGlnAspLysLysAsp 547